



PATENT  
0020-4783P

2-23-02  
Amdr  
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IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Hirokazu FUJINO et al. Conf.: Unknown  
Appl. No.: 09/719,138 Group: 3743  
Filed: February 8, 2001 Examiner: L. Leo  
For: HEAT TRANSFER PIPE WITH INTERNAL GROOVES  
AND MANUFACTURING METHOD AND  
MANUFACTURING DEVICE THEREFOR

RECEIVED

FEB 20 2002

TECHNOLOGY CENTER R3700

AMENDMENT

Assistant Commissioner for Patents  
Washington, DC 20231

February 13, 2002

Sir:

In response to the Examiner's Office Action dated September 13, 2001, the due date for response having been extended two (2) months to February 13, 2002, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

IN THE SPECIFICATION:

Please amend the specification as follows:

Page 14, lines 1-11 have been amended as follows:

The lead angle  $\theta$ , the groove depth H and the groove number N of the grooves 3 formed in the V-shaped patterns, the first to fifth groups A - E of which are arranged in the inner surface of the pipe, are set to the values by which the smallest flow resistance is obtained corresponding to the aforementioned experiment results. Therefore, since the flow resistance can be made as small as possible to reduce the pressure loss as a result, a heat-transfer pipe for a heat exchanger having a sufficiently high performance can be obtained.

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